



TECHNISCHE ALTERNATIVE

C.M.I. Control and Monitoring Interface

Version 1.14

p-files 1.14

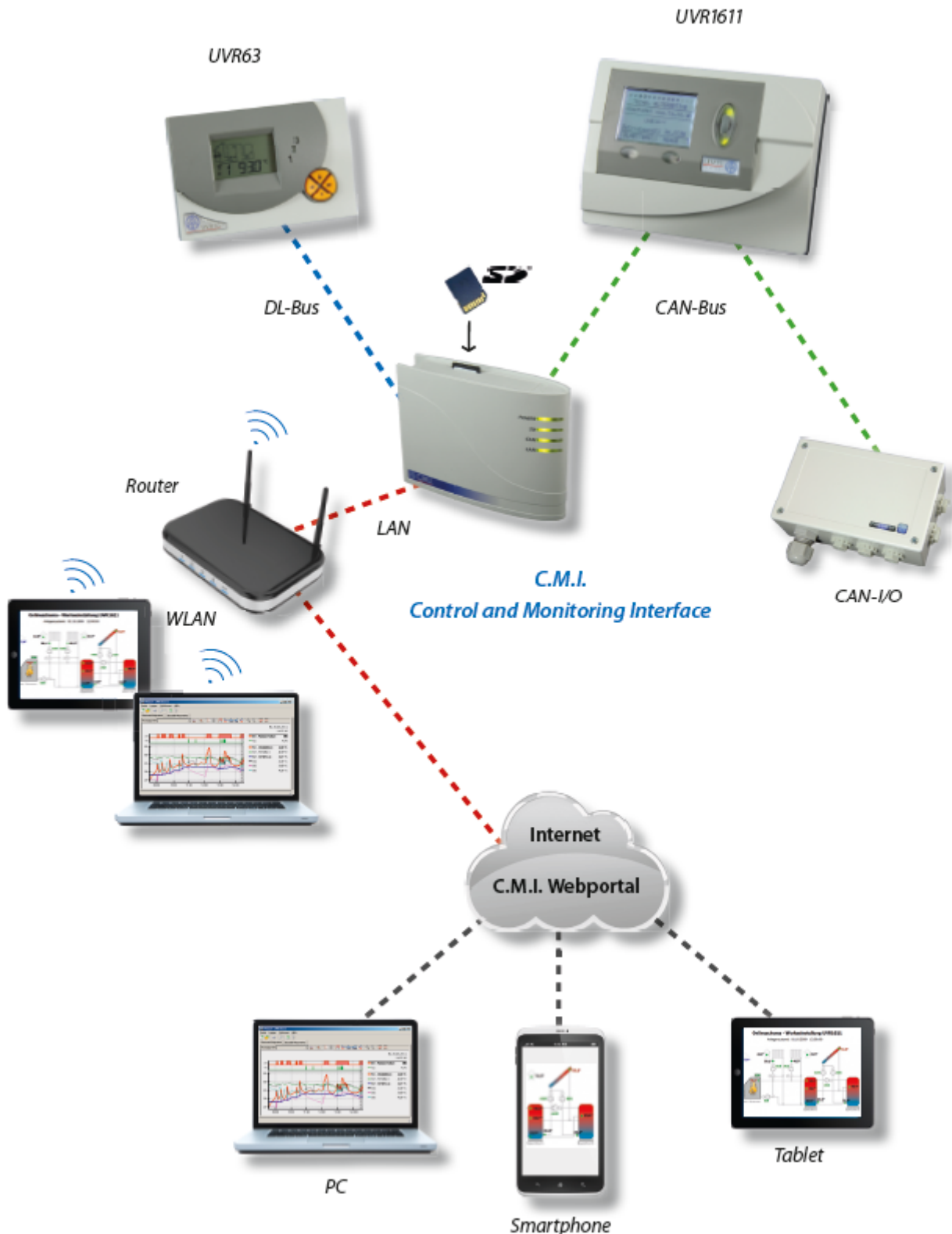
User manual



Hardware / General

Function

The control and monitoring interface (abbreviation: C.M.I.) is a web server that can create the connection between a LAN network and the controller UVR1611 with its CAN bus components. This device makes it possible to load function data into CAN bus devices, update and remote control them, illustrate online diagrams and log data. Access can be local directly from the PC/network, via Internet and the C.M.I. web portal or via Internet through port forwarding to the router. Data logging of devices with DL Bus is also possible. It was ensured to make commissioning as easy as possible for computer novices as well.



Power supply

Operation of the C.M.I. requires 12V supply from **CAN bus or a 12V-power pack**. Power is not supplied via DL bus.

To safeguard the power supply for additional CAN bus members without their own power supply per UVR1611, the use of a 12V power supply is absolutely necessary.

Data retention is also ensured without power supply.

CAN bus

Next to data transfer, the CAN bus offers also the possibility to directly access the devices in the CAN network from the PC via browser.

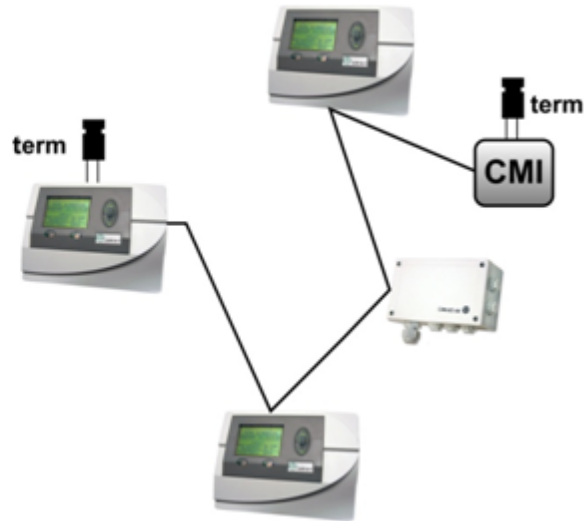
Termination

Correct termination of the buses is important for use of the CAN bus to connect several devices. The network must have **terminations** at the **ends of the lines**. For this, the C.M.I. (**next to the connections**) and each CAN bus device have an appropriate jumper (**term**). The CAN bus must never be set up in a star shape from one node or clamp to several devices. Rather, the correct topology is a bus line from the first device (with terminal) to the second and so forth. The final bus connection has the terminal bridge.

Incorrect



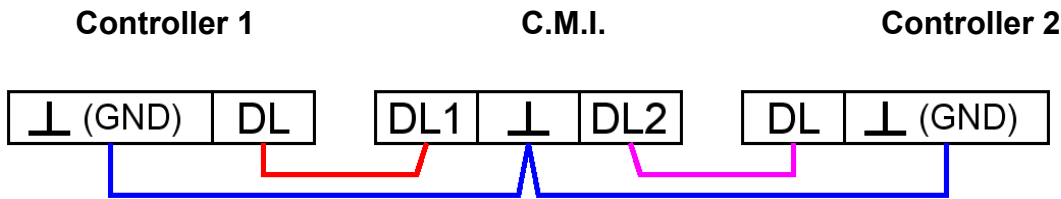
Correct



Additional information about the correct set-up of a CAN bus network (e.g.: cable selection, overvoltage protection, ...) is provided in the manual of controller UVR1611.

DL bus

Every controller of the series ESR (ESR21 version 5.0 and higher), UVR and HZR has a data output DL that forms, together with the (sensor) earth, a two-pole data line (DL bus). The C.M.I. has 2 DL inputs for simultaneous measurement recording of up to two controllers.



Any cable with a cross section of 0.75 mm² and a length of up to max. 30 m can be used for the data line (e.g. twin-strand). For longer cables, we recommend the use of shielded cable whereby the cable shielding must be connected with the sensor earth.

If two controllers are recorded with the C.M.I., separately **shielded** cables must be used as protection against crosstalk. The data link for the DL bus must likewise never be run in one cable with the CAN bus.

WARNING:

- # With controllers UVR1611K and UVR1611S, output 14 (DL) can be used either as data line or as switch output (with extra auxiliary relay). For data logging via DL bus, output 14 must therefore always be defined as a “Data line” in the “Outputs” menu.
- # With the controllers UVR1611 of the **E-series** (“board version“), output 14 is **simultaneously** used as switch output OUTPUT 14 and data line (DL bus). For activation, the output must be parameterised as a “Switch output”, even if the data link is to be activated. For activation of the data line, the query “UVR1611E:” must additionally be answered with “yes” (see additional manual for UVR1611 E).
- # UVR1611 controllers from version A2.16 additionally enable the recording of network input variables, which are handled by the C.M.I. as a virtual second UVR1611. When parameterising output 14 as a “Data line”, the menu option *NETW.EG.=>DL.* must be answered with yes. Recording of network variables is therefore not possible, if two controllers are connected with the C.M.I. (this note applies only to data recording via DL bus).
The scope for data recording of this 2nd virtual UVR1611 in the menu “[Settings/Data logging](#)” of the C.M.I.s must be set like this:

Frame

#	Source	Data record
1	CAN 1	1
2	CAN 1	2

Commissioning

Delivery scope

The delivery scope of the device includes the following parts:

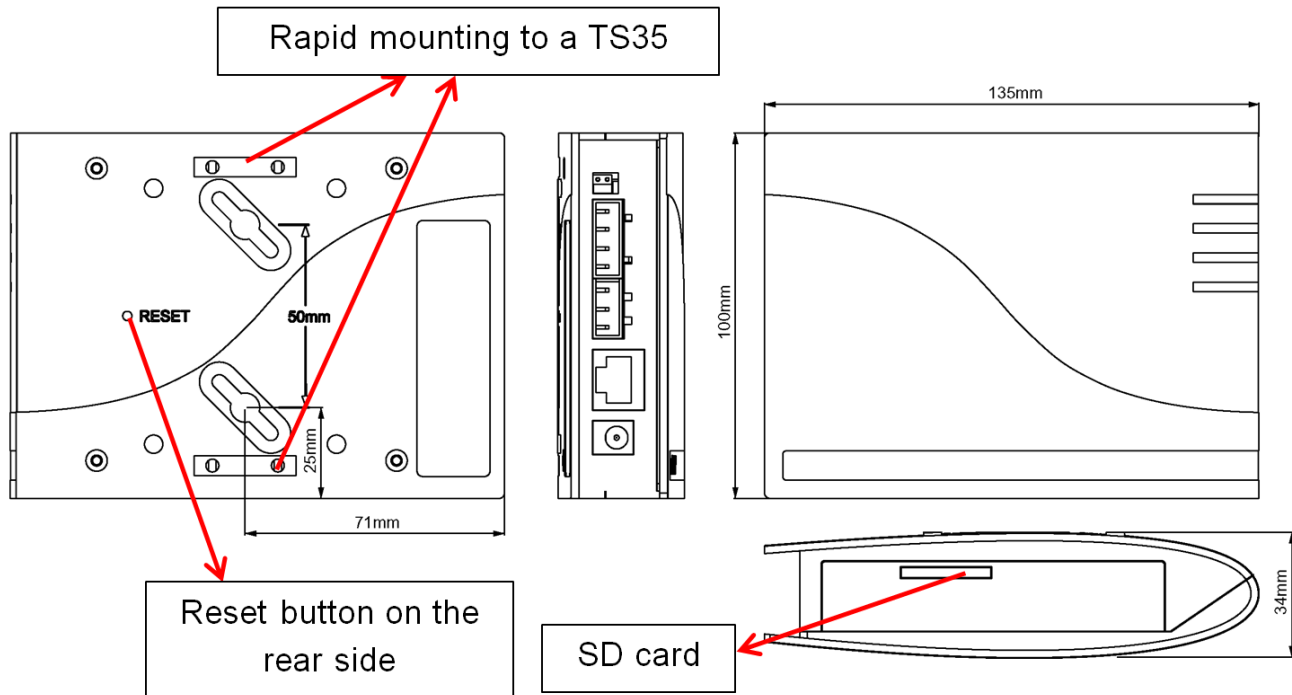
- 1 pc. Control and Monitoring Interface C.M.I.
- 1 pc. SD card
- 1 pc. 4-pole plug for the CAN bus
- 1 pc. 3-pole plug for the DL bus
- 1 pc. Brief guide
- 1 pc. 12V power unit (only with model: 01/CMI-NT)



Mounting and connection

The C.M.I. can be assembled either with 2 screws on an even surface or with the enclosed rapid mounting to a TS35 DIN rail according to the EN 50022 Standard.

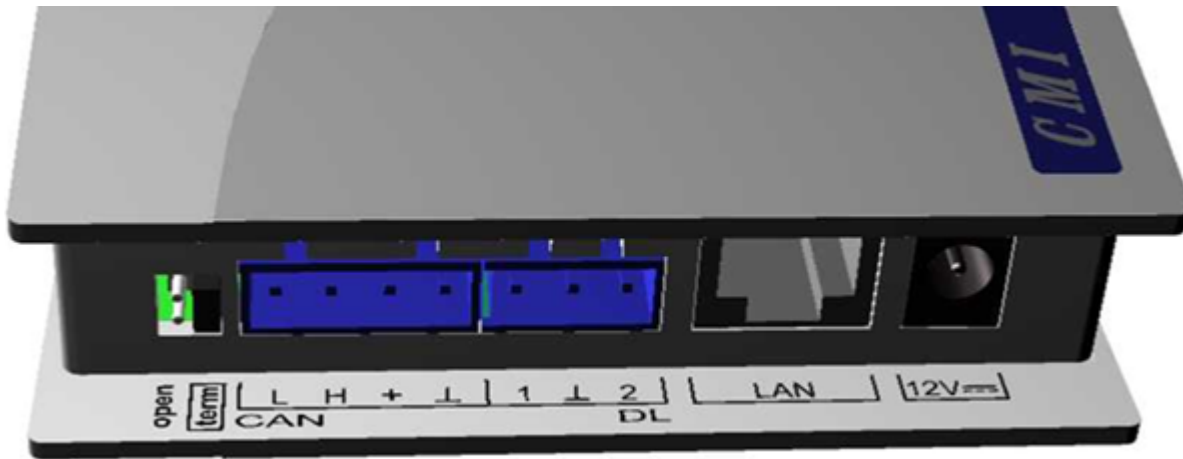
Dimensions:



Connections

Connections are labelled and must not be confused.

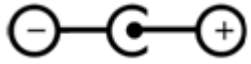
The following Figure also shows termination on the left (CAN bus).



Making the connections

Connections must be made in the following sequence

1. Connection LAN cable
2. Connection CAN bus or DL bus cable
3. Optional: power supply with power unit
(positive pole on the internal conductor, earth outside)



The **POWER** LED now has to be **green permanently**.

IP-Address

Access requires an IP address.

Network with DHCP server (standard)

The network settings are determined **automatically**.

Network without DHCP server

Direct C.M.I. connection– Windows PC

DHCP must be activated on the PC. PC and C.M.I. automatically gets an IP address this way. This process can take more than 1 minute.

Fixed IP address

1. Create a **text file** with the name **fix_ip.txt** with the required IP address in the root directory of the SD card. The content of this file must be only an IP address (example: 192.168.0.10) and "Enter".
2. **Insert** the SD card in the C.M.I.
3. **During the next start**, the C.M.I. adopts this IP address and deletes the txt file on the SD card. The network settings must then be configured locally (C.M.I. menu Settings/Ethernet).

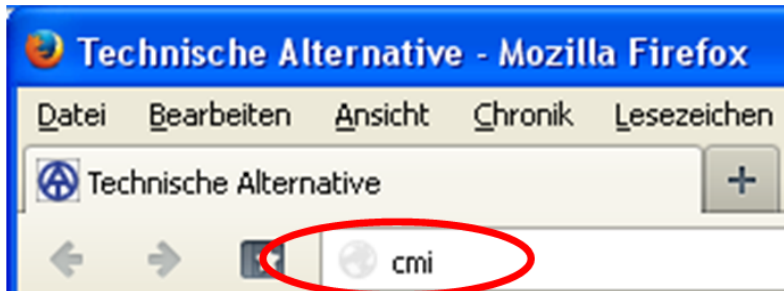
The **LAN LED** now has to **flash green or be green permanently**.

Access via browser

Access via LAN or port forwarding

1. Browser start

2. Entry in the address field of the browser: **cmi** (factory setting, only under Windows) or **IP address**



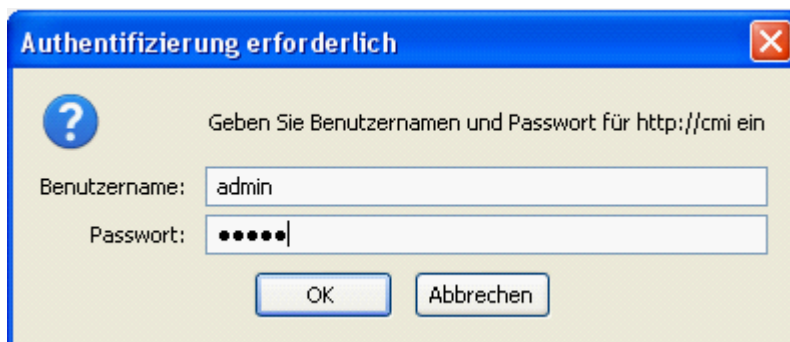
Entry „cmi“



Entry IP address (example)

The language in this window depends on the language setting in the PC operating system.

3. Authentication: Entry user name and password



The **factory-set** predefined user name is **admin**, the password also **admin**.

Confirmation with "OK".

The language in this window depends on the language setting in the PC operating system.

4. Now the **menu** of the C.M.I. appears already.



LEDs

Power: OK

SD: OK

CAN: OK

LAN: OK



V1.07B - P1.07a - B0.91 - H0.90

Further operation is described in chapter "[C.M.I. menu](#)".

Access via C.M.I. web portal <https://cmi.ta.co.at>

If you want access via **Internet**, then the C.M.I. can be connected via „**C.M.I. web portal**“. The C.M.I. web portal is a server that was set up by Technische Alternative.

1. Select the address <https://cmi.ta.co.at>, „**Log in**“ and click "**Registration**".

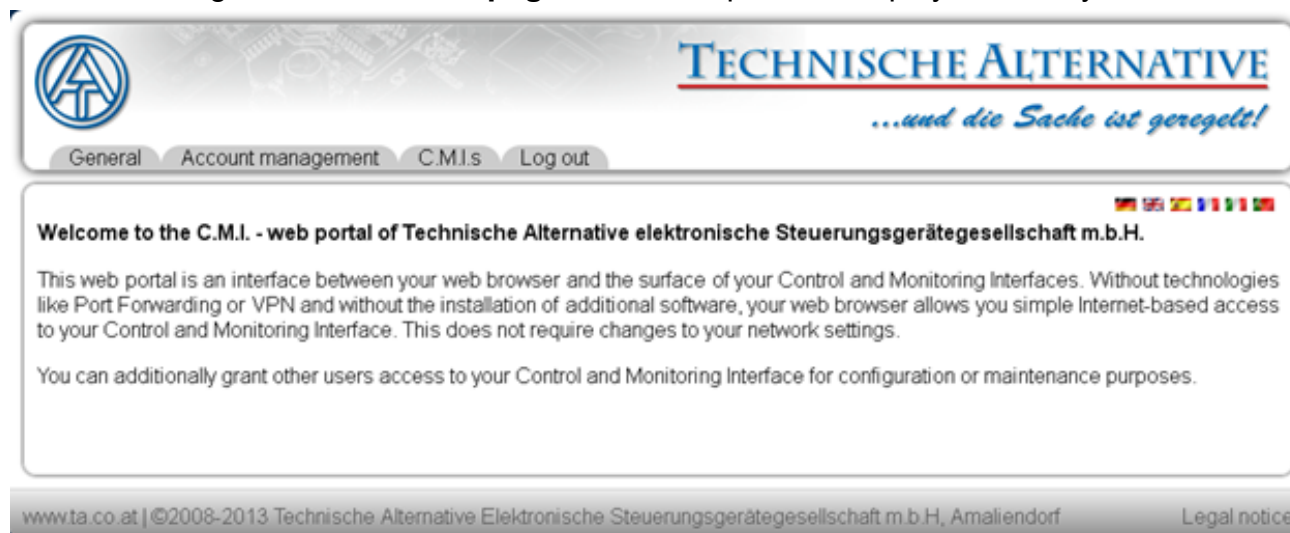


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2. **Completing** the registration form and accepting the [terms of use](#)

3. After completing registration, an e-mail with an activation link will be sent to the e-mail address used for registration. This process can take up to 30 minutes.

4. After clicking the link, the **start page** of the web portal is displayed already.



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5. **Adding** the C.M.I. in the Web portal

Selection of the tab "**C.M.I.s**"

6. Selection "**Add C.M.I.**"



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General Account management **C.M.I.s** Log out

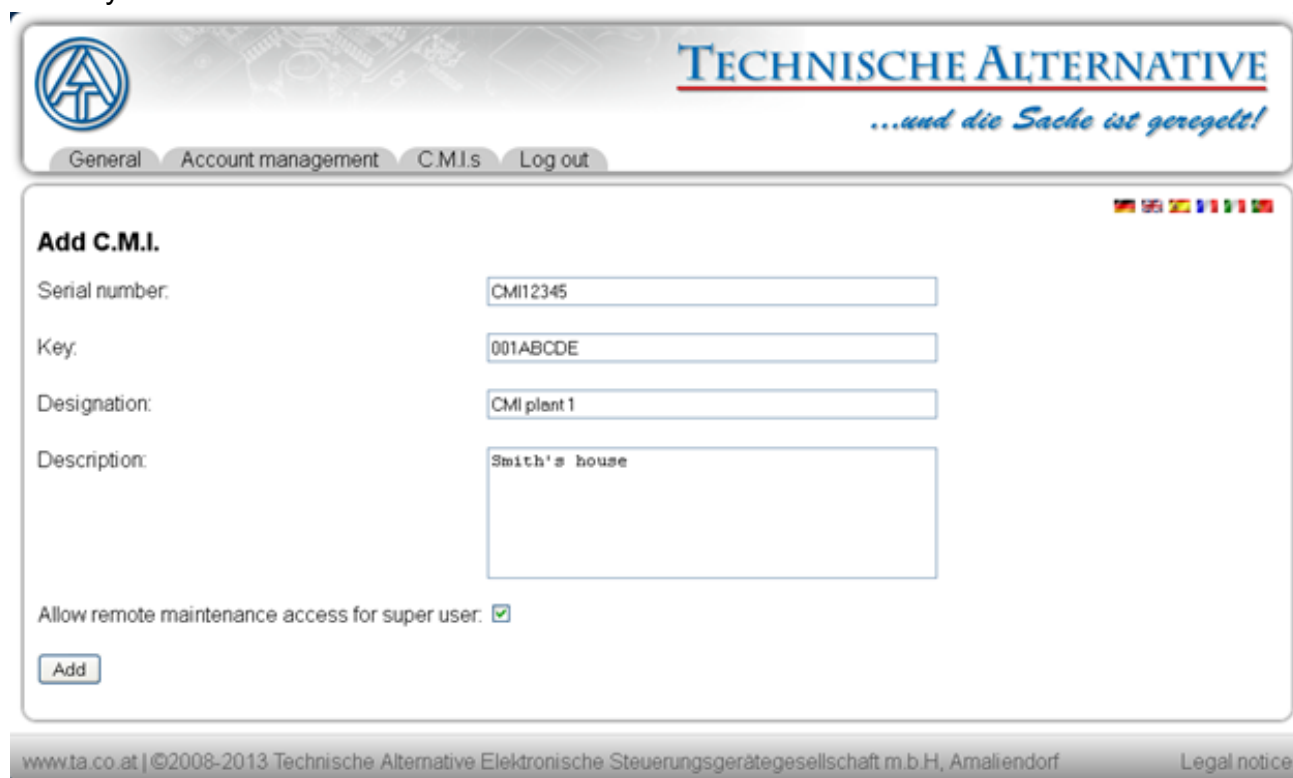
[Add C.M.I.] [Request remote maintenance]

Search

My C.M.I.s

Serial number	Designation	Management Version	Connection
---------------	-------------	--------------------	------------

7. Entry of C.M.I. data



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General Account management C.M.I.s Log out

Add C.M.I.

Serial number: CMI12345

Key: 001ABCDE

Designation: CMI plant 1

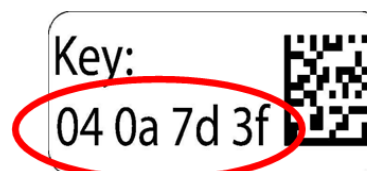
Description: Smith's house

Allow remote maintenance access for super user: ☒

Add

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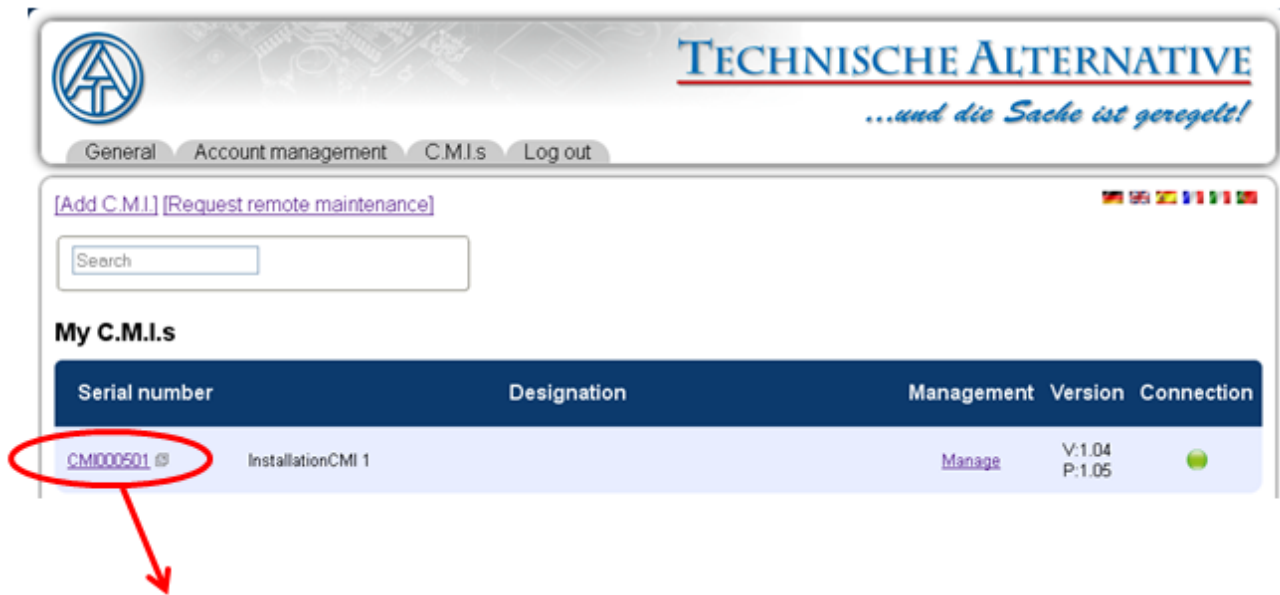
On the rear of the device is the **serial number** on the rating plate and the **key** on the key label. The key must be entered **without spaces**.




The "**Designation**" helps with the selection of several individual C.M.I.s and is visible in the list of individual C.M.I.s. If service by the **super user** (e.g. Technische Alternative) is to be allowed **at all times**, the appropriate field will be checked.

After clicking on "**Add**", a message about successful addition is displayed. After updating the page, the C.M.I. appears in the list "**My C.M.I.s**".

8. After updating the page, the C.M.I. appears in the list “**My C.M.I.s**”.



Serial number	Designation	Management	Version	Connection
CM1000501	InstallationCMI 1	Manage	V:1.04 P:1.05	

Clicking on the serial number takes you to the C.M.I. menu.

Further operation is described in chapter "[C.M.I. menu](#)".

Resetting and loading of factory settings

Briefly pressing the [reset key on the rear](#) of the C.M.I. restarts the C.M.I. (reset).

If the reset button is pressed and released while the red LEDs are still illuminated, resets the C.M.I. to factory settings.

Caution: Pressing the reset button until the red LEDs stop being illuminated starts a firmware update with the C.M.I. operation system saved to the SD card. The current firmware in the “UPDATE” folder of the SD card must be called “**CMI.BIN**”.

Web portal cmi.ta.co.at

Menu Account management

Contact information and password can be changed in this menu.

The current password must be entered to finalise **every change**.

It is also possible to delete the user.

During the log, it can be specified that the user always stays logged in when selecting the web portal:

☒ Stay logged in

[Registration](#)

[Password forgotten](#)

All saved user settings can be deleted in the account management menu.

Saved user sessions

Number: 1

[Delete account](#)

Menu C.M.I.s

Example of a user who already has registered an individual C.M.I. (CMI000501) and to whom **another user** (stefan) has granted access to his/her C.M.I. (CMI001015):



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General Account management C.M.I.s Log out

1. [\[Add C.M.I.\]](#) [\[Request remote maintenance\]](#) 4.

My C.M.I.s 2.

Serial number	Designation	Management	Version	Connection
CMI000501 @	InstallationCMI 1	Manage 3.	V:1.04 P:1.05	

Other C.M.I.s 5.

Serial number	Designation	Owner	Remote maintenance	Version	Connection
CMI001015 @		stefan:	Info	V:1.04 P:1.05	

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1. Add C.M.I.

[This application](#) is described in the chapter “Access via C.M.I. web portal <https://cmi.ta.co.at>”.

2. My C.M.I.s

All C.M.I.s of the logged in user are listed here with a shortcut.

Clicking on the serial number takes you to the C.M.I. menu (see chapter “[C.M.I. menu](#)”).

3. Manage

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General Account management C.M.I.s Log out

C.M.I. information

Serial number: CMI000501 **a**

Firmware: 1.04

p_files: 1.05

Designation: CMI plant 1 **b**

Description: Smith's house

c Save

d Remote maintenance

Username	Status	Access rights
ta	Remote maintenance permitted	Expert

Activate remote maintenance for user

Username:

Access rights: ☒ Expert ☐ Client ☐ Guest

Send

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a) Clicking on the - next to the serial number **deletes** this C.M.I. and it can no longer be selected.

b) The summary and the description of the C.M.I. can be changed here.

c) Click on “**Save**” to finalise changes.

d) In the submenu “**Manage**”, remote maintenance can be authorised **directly** for another user whose login name is known.

Example: The user with the login name “**rim**” is granted permission for remote maintenance as an expert.

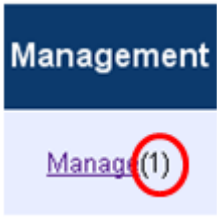
Activate remote maintenance for user

Username:

Access rights: ☒ Expert ☐ Client ☐ Guest

Send



The released C.M.I. for which remote maintenance as expert was granted is now shown to user “rim” in the menu “C.M.I.s” under “[Other C.M.I.s](#)”.



Under "My C.M.I.s", this shows that **one** [request for remote maintenance](#) was made:


After clicking on Administration, you can see in the area " Remote maintenance “:

Username	Status	Access rights
rim	Reply pending	Expert  

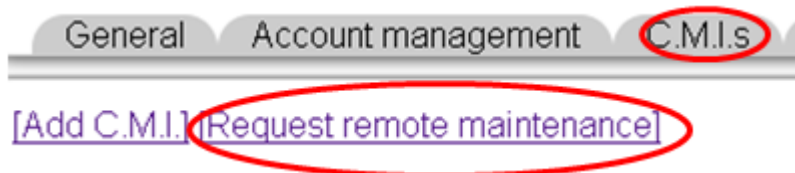
The user “rim” (=login name) has submitted a remote maintenance request.
Now, either remote maintenance can be permitted (by clicking on “”) or refused (by clicking on “”).

If it is permitted, the display changes to:

Username	Status	Access rights
rim	Remote maintenance permitted	Expert 

Clicking on “” can revoke this permission at any time.

4. Request remote maintenance



With this request with specification of the C.M.I. serial number and the access level, the user of this C.M.I. is asked for permission to perform remote maintenance for his system.

A screenshot of the 'Request remote maintenance' form in the Technische Alternative web application. The form is titled 'Request remote maintenance' and includes the following fields and options:

- Serial number: CMI000888
- My designation: CMI Thatcher
- My description: (empty text area)
- Access rights: ☒ Expert ☐ Client ☐ Guest
- A 'Send' button.

The form is part of a larger page with a header for 'TECHNISCHE ALTERNATIVE' and a footer with the website URL and copyright information.



The queried user will immediately get a mail with a **link** to click.

After clicking on the link, the addition **(1)** with “**Manage**” becomes visible for the individual C.M.I. in the menu “**C.M.I.s**”.

5. Other C.M.I.s

Here the C.M.I.s of **other users** are displayed for which the logged in user has been given permission for remote maintenance.

Example:

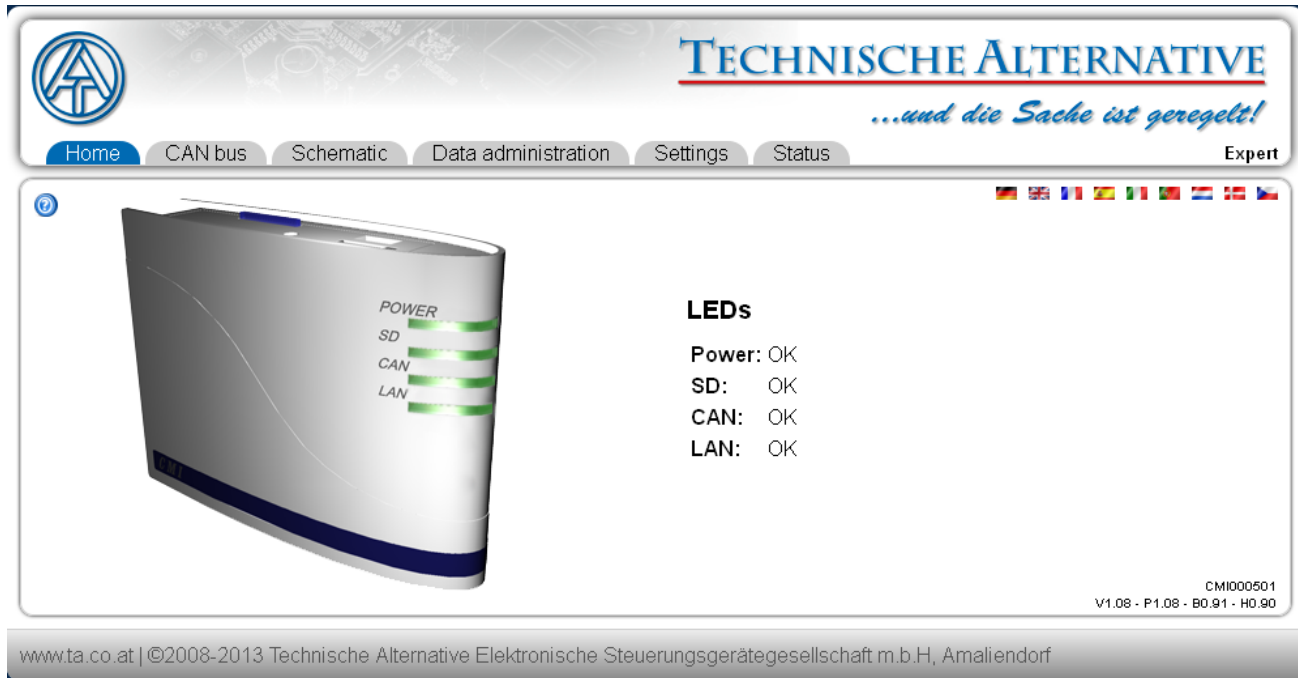
Serial number	Designation	Owner	Remote maintenance	Version	Connection
CM001015 		stefar	Info	V:1.04 P:1.05	

If “**Info**” is clicked, the window “**C.M.I. Info**” (see item 3. “[Manage](#)”) is displayed.
Access authorisation can be revoked again in this menu.
Clicking on the serial number takes you to the C.M.I. menu (see chapter “[C.M.I. menu](#)”).

C.M.I. menu

Local operation (LAN): Access to the C.M.I. menu by calling the browser and entering the host name or the IP address of the C.M.I.. Subsequently authentication with user name and password (expert, user or guest).

Operation via web portal (Internet): Entry of the C.M.I. web portal name (<https://cmi.ta.co.at>) and log in. Selection of the tab "C.M.I.s" and clicking on the serial number of the desired C.M.I.. A new tab with the designation of the device opens.



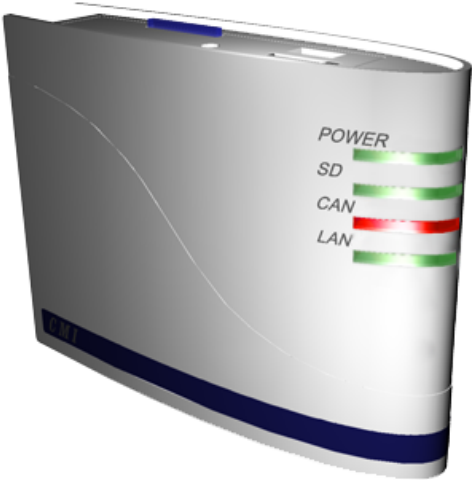
In the now opened page, the user level can be seen on the top right and the version and the serial number of the C.M.I. is visible on the bottom right.


There are 6 different submenus that are described in the following:




- # Home
- # CAN bus
- # Schematic
- # Data administration
- # Settings
- # Status

Menu Home

The 1st page (Home) shows the operating status of the C.M.I. with the LEDs. The actual status of the LEDs is shown. The current LED status is explained on the side. Six different states are possible: green, orange, red, permanently lit or flashing.





LEDs

Power: OK
SD: OK
CAN: One/several node/s has/have failed.
LAN: OK

Example: Failure of a CAN network node.

If a GSM module is installed in the C.M.I., then the menu Home will be displayed with provider ID and GSM receiver quality.

Table C.M.I. LED description

Start	all LEDs red = power on	
	all LEDs orange= booting	
POWER	green	everything ok
	green, short lapses	everything ok, short regular lapses indicate data logging
	green flashing	at the start files are transmitted from SD card to flash memory
	orange	Everything OK with the GSM module
	orange. short lapses	With GSM module:everything ok, short regular lapses indicate data logging
	orange flashing	With GSM module: at the start files are transmitted from SD card to flash memory
	red	internal error
	red flashing	no files in flash memory
SD	green	everything ok
	orange	SD card memory full
	red	SD card incorrectly formatted

	OFF	no SD card inserted
CAN	green	everything ok (at least one additional CAN node found)
	orange	not all essential nodes for logging available
	red	one node has failed
	OFF	no CAN network available
LAN	green	everything ok
	green flashing	no reverse connection to the web portal (if selected in the Ethernet menu)
	red	error
	OFF	no connection (e.g. cable not connected)

Menu CAN-Bus

This menu shows the devices in the CAN bus network with their designation and node number displayed.
The C.M.I. has node number 56 with factory settings.

Example of a CAN network with one controller UVR1611, one CAN I/O module and one CAN – bus converter CAN-BC:

The screenshot shows the 'CAN bus' menu of the 'Technische Alternative' system. The header includes the company logo, name, and slogan '...und die Sache ist geregelt!'. A navigation bar contains links for Home, CAN bus (active), Schematic, Data administration, Settings, and Status. The 'CAN bus' section displays a large card for the C.M.I. controller with 56 nodes and a 'CAN reload' button. Below this are three smaller cards for the UVR1611 controller (1 node), the CAN-I/O module (32 nodes), and the CAN-BC converter (48 nodes). Each card includes an image of the device and its node number and designation. The footer contains the website URL and copyright information.

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Home **CAN bus** Schematic Data administration Settings Status Expert

CAN bus

Nodes: 56
DES.: CMI1

CAN reload

Nodes: 1
DES.: UVR1611

Nodes: 32
DES.: CAN-I/O

Nodes: 48
DES.: CAN-BC

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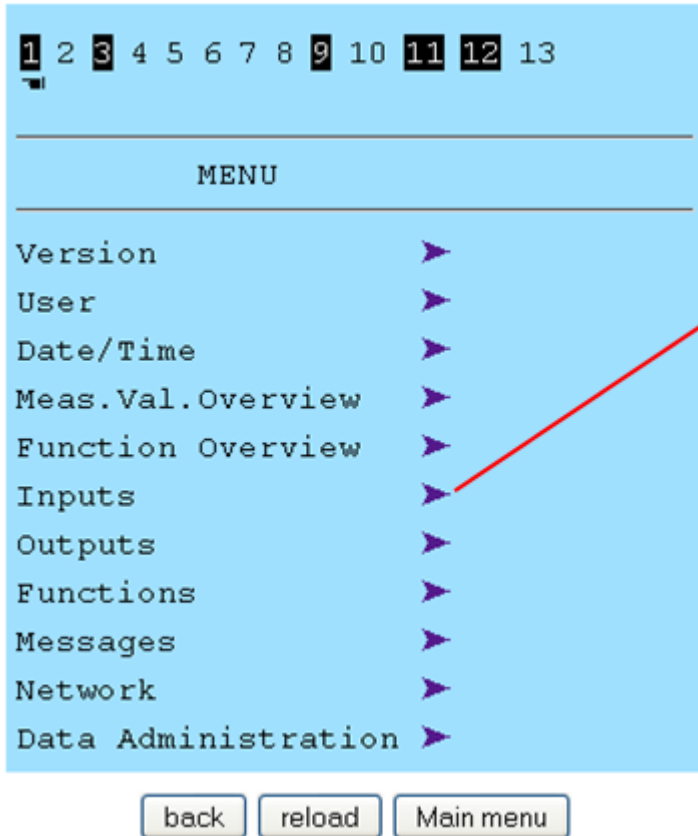
Clicking on one of the devices takes you to the device menu.

The operating status of the C.M.I. LEDs is not displayed on this page.

Remote maintenance of CAN bus devices

Example: UVR1611 node 1

Only the values current **at the time of loading** of the page that are displayed. In order to display the actual (latest) values, the page must be refreshed.



The top row displays, as familiar from the controller, the status of the outputs:

Highlighted in black: Output **ON**
The **hand symbol** means manual mode.

Clicking on an arrow takes you to the selected sub-menu.

This enables direct selection of the most important submenus (exception: “**User**” menu).

back

Using the **back** function displays the page **shown** last. This may no longer show current values.

reload

This button reloads the displayed page with current values.

Main menu

“**Main menu**” takes you to the main menu of the currently selected CAN device.

Navigation, parameterisation and configuration in the submenus is generally done in the same manner as with the controller. However, function modules cannot be created or deleted. The menu “**User**” cannot be selected.

Manual adjustment of the mixer outputs is not possible.

Example: Parameterisation input 1

After selection of the menu item “**Inputs**” a page is displayed, which has the same layout as in the controller.

1 2 3 4 5 6 7 8 9 10 11 12 13

INPUTS

1: TCollector
111,5 °C PAR? ➤

2: TWarm Water1
50,9 °C PAR? ➤

3: TWarm Water2
60,5 °C PAR? ➤

4: TSTLower1
59,8 °C PAR? ➤

By clicking the arrow next to the desired input, the following display is brought up:

1 2 3 4 5 6 7 8 9 10 11 12 13

INPUT 1

TYPE: ANALOG ⇔

MEAS VAR: Temperat. ⇔

DESIGNATION

GROUP: General ⇔

DES: TCollector ⇔

SENSOR: Pt 1000

SENSOR CHECK: no ⇔

SENSOR CORR: 0,0 K ⇔

MEAN VAL: 0,0 Sek ⇔

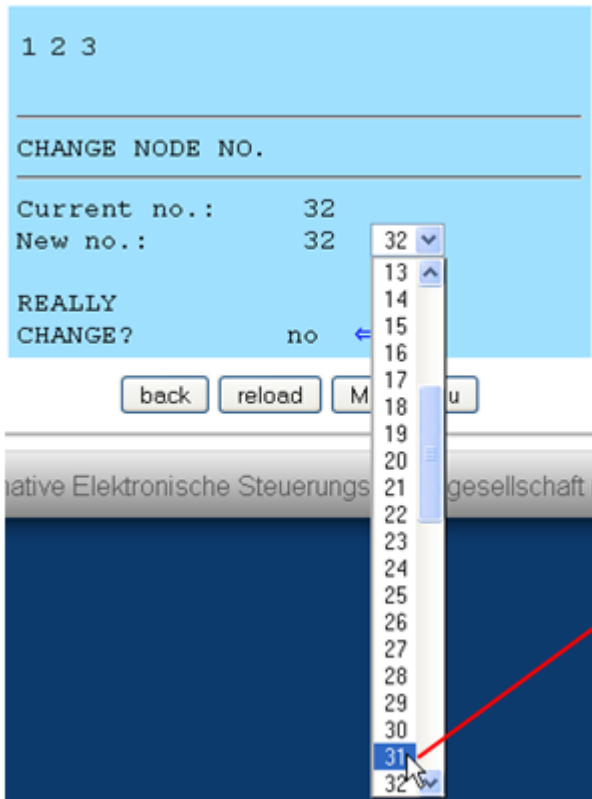
Pt1000
KTY10
Pt1000
RAS
RAS PT

back reload Main menu

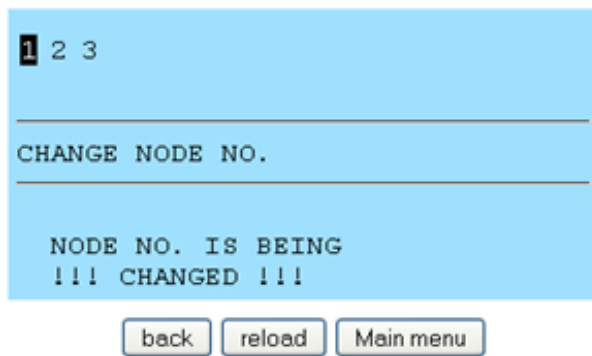
Clicking the arrow symbol of the corresponding parameter to be changed displays a selection list with possible adjustment parameters.

After making a selection by mouse clicking, the new controller parameter is immediately transferred via the CAN-bus. The controller saves the parameters and returns the corrected menu page which is reloaded by the browser.

Beispiel: Ändern der Knotennummer des CAN-I/O-Moduls von 32 auf 31
Menü „Netzwerk“ des CAN-I/O-Moduls



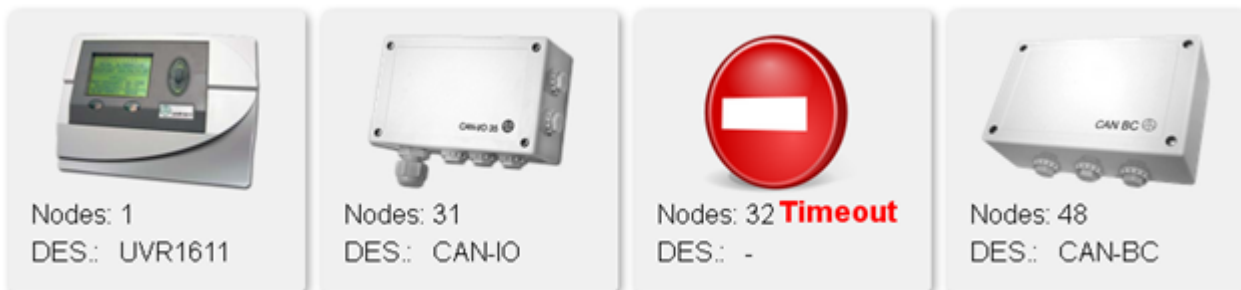
Select the new node number and confirm with **"REALLY CHANGE?"** with **"yes"**.



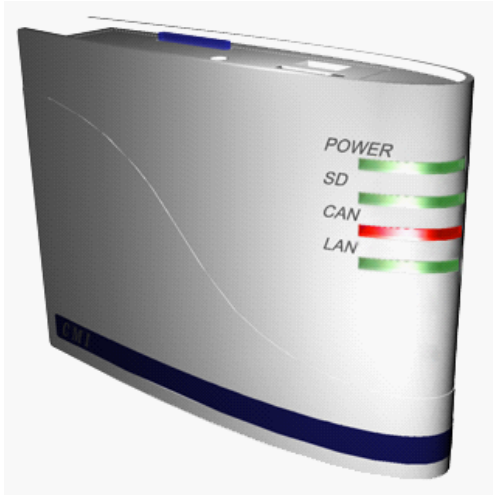
The change is displayed after the node number has been modified.

The device with the changed node number can **after the change** be selected only if you enter the menu **"CAN bus"**.

The new node 31 will then appear but the "old" node 32 will have a timeout display because it is no longer available.



A timeout display also appears if the device with node 32 is disconnected from the CAN bus or the CAN bus connection to the device is interrupted.



A missing CAN node is indicated by the red LED for the CAN bus on the C.M.I.. This display is also visible in the browser in the menu “[Home](#)”.

CAN-reload

“**CAN reload**” reloads the network nodes and all non-existing nodes are no longer displayed with timeout.

Menu Schematic

Selecting this menu item displays the online schematic (if programmed). Programming of the online schematic with “[TA-Designer](#)” is described in the program's **online tutorial**.

Direct local access to the online schematic without login can be done by entering the following URL:

http://user**:**password**@**cmi**/schema.html#1**

User: user name for expert, user or guest

Password: password defined for the respective user

cmi: host name or IP address of the C.M.I.

schema.html#1: page 1 of the online schematic is called

System requirements

UVR1611: at least operating system version **A3.25**

CAN-I/O modules: at least operating system version **A2.02**

CAN-BC bus converter: at least operating system version **A1.10**

CAN-EZ energy meter: at least operating system version **A1.03**

Menu Data administration

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Home CAN bus Schematic **Data administration** Settings Status Expert

Data administration

Update C.M.I.

Network nodes

CMI1	56
UVR1611	1
CAN-IO	32
CAN-BC	48

SD card

Drag data here

Function data

- BUS-Converter 2013-11-21 11-49.dat
- CAN-IO44 2014-01-09 13-47.dat
- CMI 2014-05-20 07-55.dat
- UVR1611 2014-06-02 09-08.dat

Firmware

- CAN_BC_A110DE.prg

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In the left part of the window, the active (connected) CAN bus devices are displayed, and in the right part the SD card with the function data and firmware files saved to the SD card.

Updating the C.M.I.

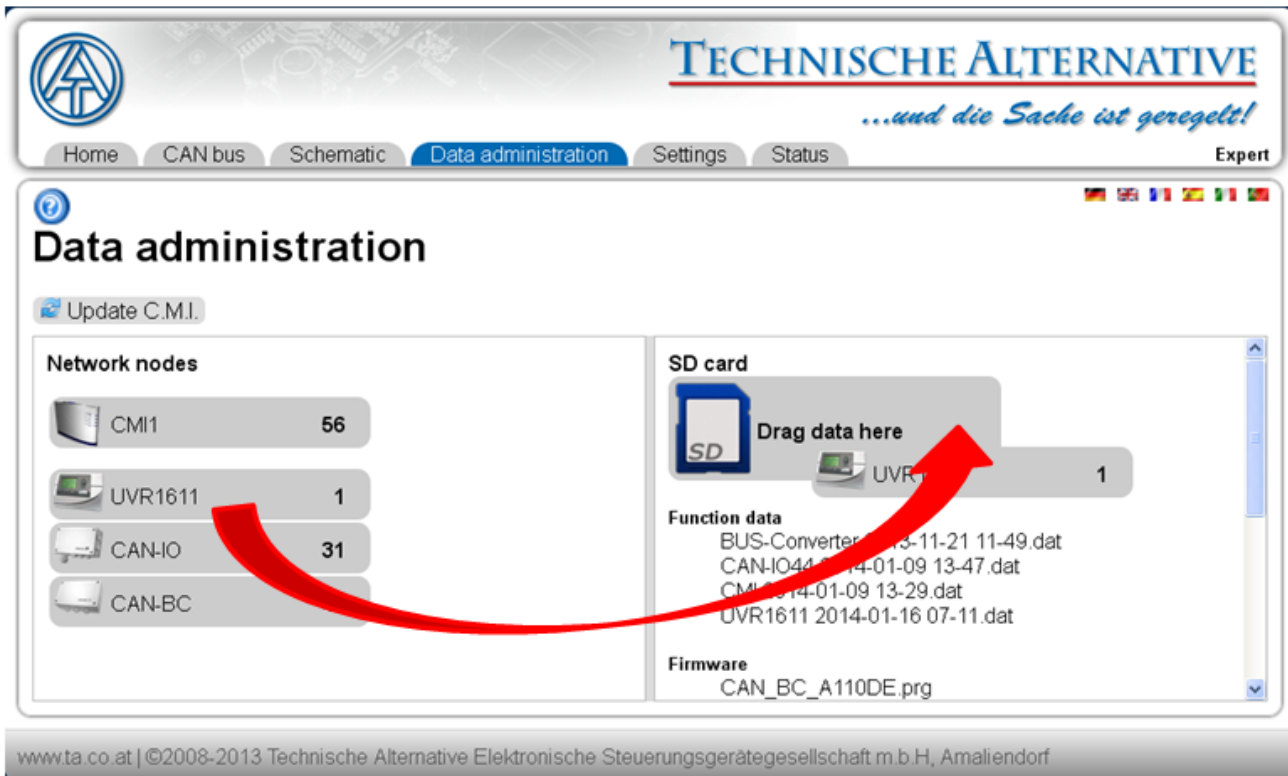


If the button "**Update C.M.I.**" appears, then new software is available for the C.M.I. A click downloads the software from the web server and automatically installs the update.

The query for the availability of new software is carried out daily. Port 80 must not be blocked by any firewalls in order to enable this button to be displayed.

The following actions can be carried out by simple dragging with a pressed left mouse button ("**drag & drop**"):

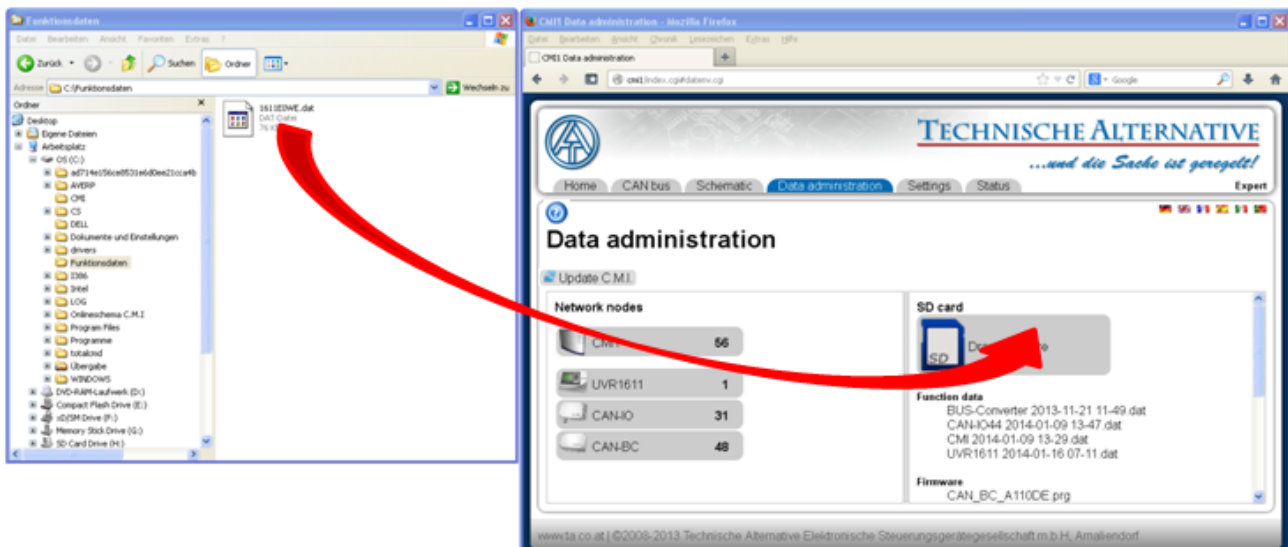
1. Download of function data from devices to SD card



The network node is dragged to the SD card symbol with drag & drop. The function data are copied to the SD card.

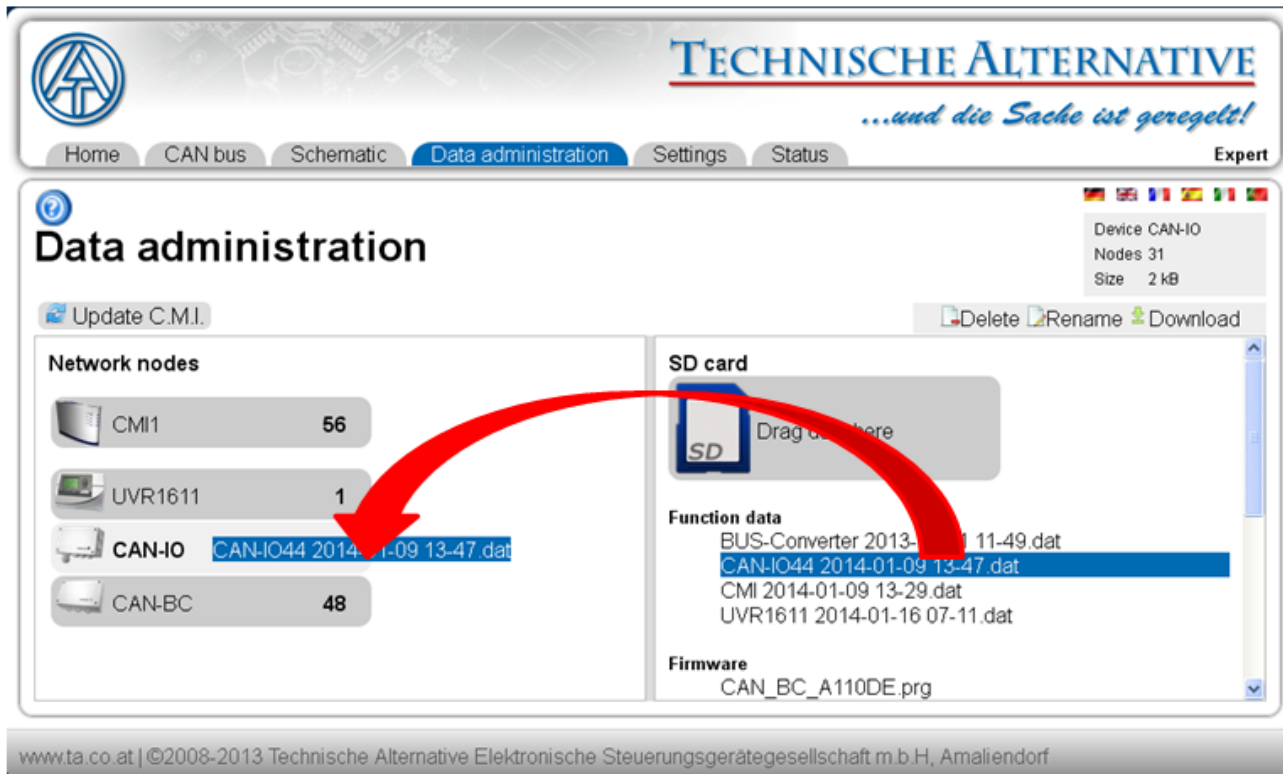
This is followed by a display indicating successful or unsuccessful download:
Function data of Bootloader BL-NET cannot be copied to the SD card this way.

2. Copying files from Windows-Explorer to SD card



The file is pulled to the SD card symbol with drag & drop and thus copied to the SD card.

3. Upload of function data and firmware from SD card to devices



The upload is started with drag & drop from the list of function data or firmware to the device symbol. All devices in the CAN bus, including the C.M.I., can thus be updated. Update of boot loader BL-NET is not possible.

If a file was dragged to an incorrect device that is not compatible with this file, there will be an ERROR message.

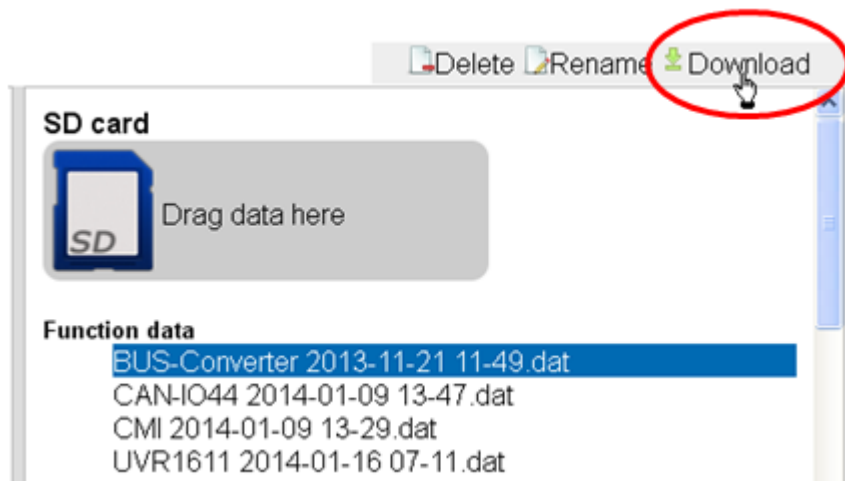
Please note the following for any C.M.I. update:

The C.M.I. operation system is made up of the firmware `cmi_V*.**.bin` and the user interface `p_files.V*.**.bin`. The `cmi_V*.**.bin` or the `p_files.V*.**.bin` must be dragged to the C.M.I. field with drag & drop. The file `p_files.V*.**.bin` is checked for changes at every start (also during updates) and loaded, if necessary.

Problem case:

If the CAN connection is interrupted during the firmware update of a UVR1611, then the controller in node 63 is without operation system. For a **new start** of the firmware update again, drag the controller firmware to the C.M.I. icon as an exception.

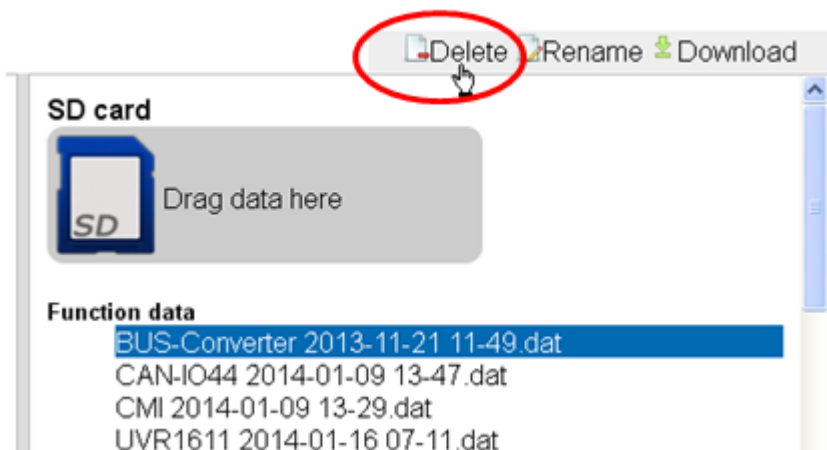
4. Download of function data or firmware from SD card to PC



Highlight the desired file and click on **“Download”**.

“Save file” copies the file to the download folder of the browser where it can be moved to another folder.

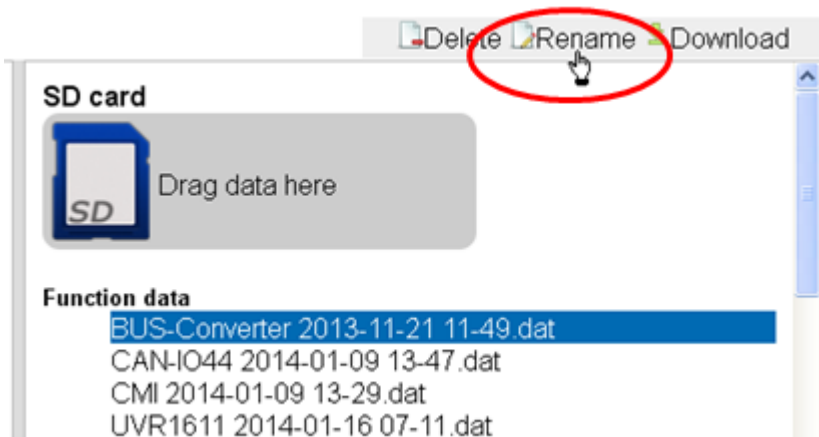
5. Deleting files on the SD card



Highlight the desired file and click on **“Delete”**.

Answer the subsequently displayed confirmation message with Ok.

6. Renaming files on the SD card



Highlight the desired file and click on **“Rename”**.

In the subsequently displays window, enter the new file name and confirm with Ok.

Menu Settings

Ethernet (LAN settings)



Ethernet

CAN

Messages

Contacts

Passwords

Data logging

Time

LAN settings

Host name

Host name

CMI1

IP settings

DHCP



IP address

192.168.10.239

Subnet mask

255.255.255.0

Gateway

192.168.10.86

HTTP port

80

DNS settings

Primary DNS

213.33.99.70

Secondary DNS

0.0.0.0

MAC address

3C-CD-5A-00-01-F5

Reverse

Web portal



Save

Cancel

Restart

If more than one C.M.I. is used in the same LAN network, then these C.M.I.s must have different host names.

In this example, the host name was changed to "CMI1". The host name can be freely selected and does not require a reference to the word "CMI". The host name may not include an underscore ("_"); a hyphen ("-") is permitted.

The HTTP port can be adjusted. Factory setting: 80

Every C.M.I. has an individual MAC address:

3C-CD-5A-00-XX-XX

serial number
(hexadecimal)

After the entry of the new name, first click "**Save**" and then "**Restart**".

Firewall: With access via the web portal and mail dispatch, an existing firewall must not block ports 40001 and 40002.

Port 80 must not be blocked by any firewalls in order to enable the "Update C.M.I" button to be displayed.

Direct connection C.M.I. - PC

DHCP is activated in the factory setting. The C.M.I. tries to obtain a valid IP address from the network on its own.

If there is no DHCP server in the network, automatic IP allocation will be started. An IP address between 169.254.0.1 and 169.254.254.255 is allocated. The subnet mask is 255.255.0.0. This process can take more than 1 minute.

The C.M.I. can be selected directly with the host name in Windows in the browser. If the name resolution does not work, you have to proceed as described in chapter “**Connection without DHCP**”.

Connection without DHCP

The user can specify the parameters (IP address etc.) manually.

This can be done in the web interface. If access via the web interface is impossible, there is the possibility to define a fixed IP address with a file:

A text file with the name **fix_ip.txt** with the desired IP address is created in the root directory of the SD card. The content of this file may consist only of an IP address (e.g. 192.168.0.10) and “Enter”.

During the next start, the C.M.I. will adopt this IP address, deactivate DHCP and reverse (web portal) and delete the txt-file on the SD card.

CAN settings

The CAN node number and the bus rate of the C.M.I. can be changed in this submenu. Every CAN bus participant must have an individual node number in the CAN network.



CAN settings

- Ethernet
- CAN**
- Messages
- Contacts
- Passwords
- Data logging
- Time

Nodes

CAN designation CMI1

Node number 56

Bus rate 50k ▼

Save

Cancel

The C.M.I. has node number 56 with factory settings.

The C.M.I. can get the system time from the Internet.

Because the system time of all other devices will be accepted by node 1 in a CAN network, the C.M.I. could be assigned with node number 1. But it must be ensured that no other device has this node number. That applies especially to networks with several UVR1611.

Bus rate: The bus rate can be set in the CAN settings of controller UVR16x2. This bus rate must match that of the C.M.I. and of all other CAN bus devices.

Messages

The values and conditions for mail and SMS dispatch can be determined in the menu “Messages”. It is only possible to send text messages with the built-in GSM module. The values are accepted either by CAN or DL bus. Up to 32 messages are available.

Example for a message in case of excess collector temperature:

ⓘ

Messages

Ethernet

CAN

Messages

SMS

Contacts

Passwords

Data logging

Time

Electricity failure

Node failure

CMI restart

1: T.collector

2:

3:

4:

5:

6:

7:

8:

9:

10:

11:

12:

13:

14:

15:

16:

17:

Value to be monitored (1)

Designation: T.collector 1

Bus: CAN 2

Network nodes: 1 3

Source: Analog1 4

Process size: Temperature

Actual value: 77,4 °C

Message

send if value: 5 > 130,0 °C

Message

Collector excess temperature 6

Contacts for messages

☒ john.smith@aon.at 7

☐ ann.thatcher@aon.at

☐ gerald.fisher@aon.at

☐ +44123456789

Save

Cancel

8

1. Message designation
2. Selection of the bus: **CAN** bus or **DL** bus DL1 or DL2
3. Only with CAN bus: specification of reference node
4. **Source**: Analogue or digital network output with CAN bus, input or output with DL bus
5. **Sending condition**: Analogue values: equal =, greater >, greater or equal >=, less <, less or equal <=, digital values: ON or OFF
6. **Text input** for the mail
7. Selection of contacts to send a mail to if the message condition applies. The contacts are determined in the menu “[Contacts](#)”.
8. After completing the entry: **Save**.

SMS dispatch and SMS query are described in the manual for the GSM module.

Automatic messages

Electricity failure

In case of electricity failure, an SMS can be sent only via the GSM module (description in the GSM module manual).

Node failure

In the event of a CAN node failure, an email message can be sent, and with an installed GSM module an SMS message can be sent. A CAN node failure is detected only after a time-out of **20 seconds**.

Example:

Ethernet

CAN

Messages

SMS

Contacts

Passwords

Data logging

Time

Electricity failure

Node failure

CMI restart

1: T.collector

2:

3:

4:

5:

6:

7:

Node failure

Message text with node failure

node failure

Contacts for messages

☒ john.smith@aon.at

☐ ann.thatcher@aon.at

☐ gerald.fisher@aon.at

☐ +44123456789

Save

Cancel

CMI restart

A restart of the C.M.I. that was caused by e.g. electricity failure or an update can trigger an email message, or an SMS message if a GSM module is installed.

Example:

Ethernet

CAN

Messages

SMS

Contacts

Passwords

Data logging

Time

Electricity failure

Node failure

CMI restart

1: T.collector

2:

3:

4:

5:

6:

7:

CMI restart

Message text after CMI restart

C.M.I. restart

Contacts for messages

☒ john.smith@aon.at

☐ ann.thatcher@aon.at

☐ gerald.fisher@aon.at

☐ +44123456789

Save

Cancel

SMS

The designations and conditions for SMS commands are entered in this menu.
This function is possible only with a built-in GSM module.

SMS

- Ethernet
- CAN
- Messages
- SMS**
- Contacts
- Passwords
- Data logging
- Time

ANALOG

CAN	Designation	No.	Alt. value	Process size
1	<input type="text" value="hot water"/>	<input type="text" value="∞"/> <input type="button" value="v"/>	<input type="text" value="40,5"/>	<input type="text" value="Temperature"/> <input type="button" value="v"/>
2	<input type="text" value="heating"/>	<input type="text" value="1"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="Dimensionless"/> <input type="button" value="v"/>
3	<input type="text"/>	<input type="text" value="1"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="Dimensionless"/> <input type="button" value="v"/>
4	<input type="text"/>	<input type="text" value="1"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="Dimensionless"/> <input type="button" value="v"/>
5	<input type="text"/>	<input type="text" value="1"/> <input type="button" value="v"/>	<input type="text" value="0"/>	<input type="text" value="Dimensionless"/> <input type="button" value="v"/>

The use of SMS commands is described in the manual for the GSM module.

Contacts

E-mail addresses and phone numbers for text messaging are entered in this menu. It is only possible to send text messages with the built-in GSM module.



- Ethernet
- CAN
- Messages
- SMS
- Contacts**
- Passwords
- Data logging
- Time

Contacts

Mail
Subject

Receiver

Receiver1	<input type="text" value="john.smith@aon.at"/>	<input type="button" value="Test"/>
Receiver2	<input type="text" value="ann.thatcher@aon.at"/>	<input type="button" value="Test"/>
Receiver3	<input type="text" value="gerald.fisher@aon.at"/>	<input type="button" value="Test"/>
Receiver4	<input type="text" value="+44123456789"/>	<input type="button" value="Test"/>
Receiver5	<input type="text"/>	<input type="button" value="Test"/>
Receiver6	<input type="text"/>	<input type="button" value="Test"/>
Receiver7	<input type="text"/>	<input type="button" value="Test"/>
Receiver8	<input type="text"/>	<input type="button" value="Test"/>

Up to 8 contacts can be listed and tested.

The phone numbers must begin with the international area code (e.g. +44 ...).

E-mails or text messages can be sent to these contacts if the message condition (see menu "[Messages](#)") applies.

Passwords

User names and passwords for different user levels are defined here. Only the user name and the password for the expert (admin/admin) are pre-set in the factory settings. Password settings can be changed by registered **experts** only.



- Ethernet
- CAN
- Messages
- Contacts
- Passwords**
- Data logging
- Time

PW settings

Expert
User
Change password ☐
Password
Password

User
User
Change password ☒
Password
Password

Guest
User
Change password ☒
Password
Password

Passwords may not include special characters or umlauts ("ä, ü, ö").

Password entry must be repeated as a precaution.

The "**Expert**" has complete access to the C.M.I. without restrictions.

The "**User**" is authorised for access to the interactive **online schematic** and can view values **and**, depending on the programming, **also change them**. Access to other C.M.I. pages is possible but settings cannot be modified there.

Only the online schematic is displayed for a "**Guest**". Guests may view it but are not allowed to modify values.

Direct local access to a C.M.I. page without login can be done by entering the following URL:

http://user:password@cmi/**xxxxxx**

User: user name for expert, user or guest

Password: password defined for the respective user

cmi: host name or IP address of the C.M.I.

xxxxxx: entry of the required URL

Data logging

The settings for data logging are made in this menu. Man can log either from the DL bus (max. 2 data lines) or from the CAN bus (max. 8 data records).

The data is saved to the SD card.

Simultaneous logging from DL and CAN bus is not possible.

Example: CAN data logging of 2 data records each of node 1 (e.g. UVR1611) data record (or records) node 2 (UVR16x2) and of node 40 (e.g. CAN-EZ)

Ethernet

CAN

Messages

Contacts

Passwords

Data logging

Time

Logging

Memory used

SD card0,00 %

Criterion

minutes0Seconds10

Frame

#	Source	Data record
1	CAN 1	1
2	CAN 1	2
3	CAN 2	16x2
4	CAN 40	1
5	CAN 40	2
6	—	—
7	—	—
8	—	—

4

5

6

7

8

Save

Cancel

1. Display of already used memory in % of available memory space for data logging.

2. The saving criterion defines the time interval for data logging. Entries from 10 seconds up to 60 minutes are possible.

3. Source information (DL bus: DL1, DL2 or CAN bus: entry of node number) and of the data record. Controller UVR1611 and the CAN energy meter CAN-EZ can output 2 data records.

Please note during the logging of the data of controller UVR16x2: Depending on the settings in the UVR16x2 menu **CAN bus / data logging**, only 1 data record or 2 data records are logged.

The number of data records depends on the following rule: If at least a higher or equal analogue value is assigned to the number 17, then a 2nd data record is automatically created for this controller. The same applies to digital values higher or equal to number 14. That is no apparent in the C.M.I. menu. If e.g. 4 UVR16x2 are entered, for which 2 data records each are output, then no additional data records are

displayed in **Winsol** even if they could be entered in the above list. Additional instruction for data logging of controller UVR16x2 are in the [programming manual](#) of the controller.

- 4.** Possibility to delete the internal memory **of the C.M.I.**
- 5.** Possibility to delete the logged data **on the SD card**.
- 6.** Creation of day log files on the SD card, which can be read with **Winsol**.
- 7.** Completion of entry with “**Save**”.
- 8.** Cancellation of entry and resetting to the setting saved last.

If the settings for the source and/or the data record of a source are changed, then we recommend **restarting** the C.M.I. (menu “[Ethernet/Restart](#)”) and **deleting the memory**. After the first logging time, a **set-up** is carried out in **Winsol** and completed with “**Ok**” so that the C.M.I. logs data with the modified settings.

The contents of the internal C.M.I. memory are saved to the SD card as a day log file every day at midnight. During the readout with [Winsol](#), a day log file is created for the current day and all day log files saved to the SD card are copied into the monthly file of **Winsol**. Depending on the setting in [Winsol](#), the daily log files are either deleted or saved on the SD card.

With simultaneous data logging with C.M.I. and BL-Net or D-LOGG, this is not possible and will disrupt logging.

Time settings



Ethernet

CAN

Messages

Contacts

Passwords

Data logging

Time

Time settings

System time

14:57:0823.09.2014

Source of supply

Source of supplyWEB

Region

Time zone

(GMT+1:00) Vienna, Berlin, Paris

☒ Automatic summertime

NTP server

NTP server3.at.pool.ntp.org

Standard NTP

Save

Cancel

Source of supply: The C.M.I. accepts the time-stamp either from an adjustable NTP server (default setting: 3.at.pool.ntp.org) or from the CAN network (UVR1611 with node number 1) or via one of the two data lines (DL bus) of the respective connected controllers.

Automatic switch to summer time takes place according to the specifications of the European Union.

The system time is responsible for the time-stamp during data logging and for the time information of other log files.

Because the system time of all other devices will be accepted by node 1 in a CAN network, the C.M.I. could be assigned with node number 1. But it must be ensured that no other device has this node number. That applies especially to networks with several UVR1611.

During the data logging of controllers without individual system time (e.g. UVR64, HZR65), it must be ensured that “**WEB**” is set as source and that there is an Internet connection.

Menu Status

This menu provides information above files saved to the SD card and other states of the C.M.I..

SD card

If an SD card other than the supplied one is used, then the following must be observed:

- # The SD card must be formatted with the FAT16 or FAT 32 file format.
- # SD cards with a memory of up to 4 GB can be used without problems.
- # SD cards with a memory of up to 32 GB can be used but the display of available memory may be incorrect.
- # SD cards with a memory of more than 32 GB cannot be used.

The screenshot shows the 'Technische Alternative' web interface. The top navigation bar includes 'Home', 'CAN bus', 'Schematic', 'Data administration', 'Settings', and 'Status' (highlighted). The 'SD card' section is active, showing 'Free memory: 3736 MByte' and a 'Delete Eventlog' button. A table lists the contents of the SD card:

#	Name	Size	Date
1.	Update	DIR	24.06.2014 - 11:29
2.	event_log	-	01.01.2014 - 00:00
3.	dat_files	-	02.10.2014 - 08:32
4.	prg_files	-	02.10.2014 - 08:32
5.	schematic_files	-	02.10.2014 - 08:32
6.	log	-	02.10.2014 - 14:47
7.	doku	-	01.04.2015 - 12:55
8.	x_files	-	01.04.2015 - 12:57
9.	lan_settings.txt	109	05.05.2015 - 14:07
10.	coe.csv	139	01.04.2015 - 13:16

The footer contains the text: 'www.ta.co.at | ©2008-2015 Technische Alternative Elektronische Steuerungsgerätegesellschaft m.b.H, Amaliendorf'.

The available memory and all folders and files saved to the SD card are displayed. Clicking on a folder displays the files in this folder.

Example: Folder **LOG**

In the first two lines, symbols are displayed that can be clicked to trigger the following actions:

#	Name	Size	Date	
1.	.		15.11.2013 07:55	Click: Update view
2.	..		15.11.2013 07:55	Click: Back to last view
3.	2014		09.01.2014 - 13:02	
4.	INFOH.LOG	5.664	16.01.2014 - 09:42	

The folder **doku**, PDF files are saved, which were pulled to the SD card via drag & drop. Folder **x-files** is for all files that cannot be assigned to other folders.

Deleting the file in the folder event_log



Clicking on this button deletes the txt file in the folder event_log (event and error memory).

Copy the SD card's files to the computer

Click on the file in question with the right mouse button and select the target on the computer.

TCP sockets

This page provides an overview of possible network connections and is especially helpful for experts during the error analysis of network problems.

CAN-Bus



CAN node status

SD card

TCP sockets

CAN bus

DL bus

Logging

Nodes	Timeout	Device
1	15	UVR1611
32	19	CAN-I/O 44
48	22	BUS-CON

Refresh

 auto sec: **10**

In this submenu, the CAN bus status can be checked.

Every CAN bus device sends a **Heartbeat**¹ to the C.M.I. every 10 seconds. If there is no signal after 15 seconds, “**Timeout**” is displayed for the node.

Nodes	Timeout	Device
1	20	UVR1611
31	20	CAN-I/O 44
32	timeout	-
48	17	BUS-CON

Example: Timeout of node 32

Clicking on the node number in this submenu takes you directly to the menu of the respective device.

¹ A **Heartbeat** is a network connection between two (or more) computers in a cluster to inform each other that they are operational and can still fulfil their tasks, i.e. that they are “alive” (Source: Wikipedia).

DL-Bus



- SD card
- TCP sockets
- CAN bus
- DL bus**
- Logging

DL status

DL	Timeout	Device
DL 1	1	UVR 1611
DL 2	timeout	--

Refresh

auto sec: 10

In this submenu, the DL bus status can be checked.

If there is no signal after 15 seconds, “**Timeout**” is displayed for the data line. In the above example, only one data line is connected so a timeout is visible only with DL2.

Logging



SD card

TCP sockets

CAN bus

DL bus

Logging

Logging

27.03.2014, 08:09:50

current

start

saved

041B4800 04000000 00000000

#	Source	Data record	Controller
1	CAN 1	1	UVR 1611
2	CAN 1	2	UVR 1611
3	-	-	--
4	-	-	--
5	-	-	--
6	-	-	--
7	-	-	--
8	-	-	--

Refresh

In this status menu, it can be checked whether the set logging method works.

In addition, it can be checked whether the system time is valid. There will be no logging without a valid system time.

Brief lapses of the green “**POWER**“ LED at regular intervals indicates active data logging

CoE

This page shows the current data transfer "CAN over Ethernet" (CoE). More detailed explanations for CoE can be found in chapter "Data transfer with CAN or Ethernet (CoE)".

Data transfer with CAN over Ethernet (COE)

Description of the data transfer method

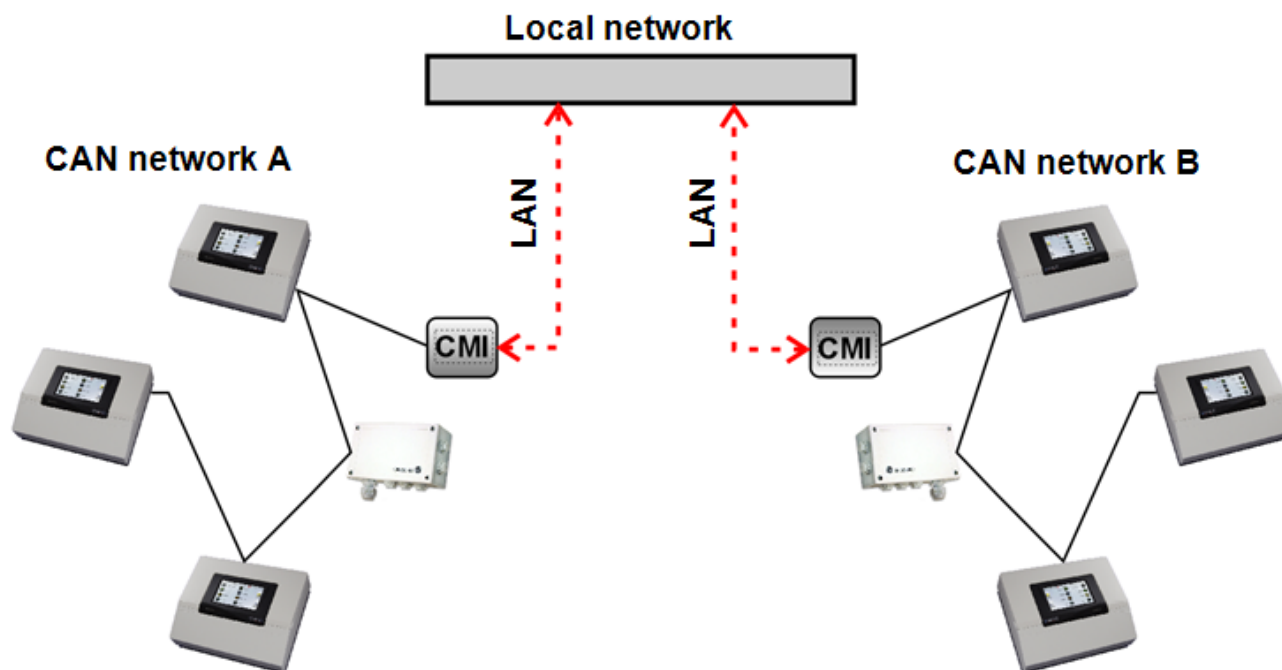
With this method it is possible to transmit analogue and digital CAN network variables via Ethernet (LAN, only to a fixed IP address).

Data is transferred from one C.M.I. to one or several C.M.I., data can thus be exchanged between separate CAN networks.

Parameterisation takes place via Excel table (coe.csv).

Data transfer via Ethernet takes place via UDP, port 5441.

Example:



Required settings

1. The **receiver C.M.I.** must have a fixed IP address. We recommend to first install the C.M.I. **with DHCP** and to then **deactivate** the **DHCP** mode in the menu Settings/Ethernet.

LAN settings

Host name

Host name

CMI1

IP settings

DHCP

☐

IP address

192.168.10.234

Fixed IP address

If data is sent in **both** directions, both C.M.I.s must have a **fixed** IP address.

2. A csv file with the name **coe.csv** must be created for the **transmitting** C.M.I. precisely according to the following setup (separator: semicolon ;). An empty sample file can be downloaded from the TA website.

Note: The network in- and outputs of a CAN bus device have the numbers 1 to 32, whereby the digital network in- and outputs are in the range 1 to 16 and the analogue ones are in the range 17 to 32.

Example: The **analogue** network output **ANALOG 2** of the device has the **number 18**.

Example for the coe.csv file:

	A	B	C	D	E
1	Nodes source	Value source	Send as node	Send as value	To IP
2	1	17	50	17	192.168.10.253
3	1	18	50	18	192.168.10.253
4	1	1	50	1	192.168.10.253
5	2	17	45	1	192.168.10.253

Column A	Nodes source	Specification of the node number of the CAN bus device that the value to be transmitted originates from
Column B	Value source	Specification of the number of the network output of this device. The digital network outputs always get the number range 1 to 16, the analogue ones 17 to 32.
Column C	Send as node	The receiving C.M.I. gets this virtual node number in addition to its own number. This virtual node number must not already be assigned in the CAN-network of the receiving C.M.I. Several virtual node numbers can be assigned for one C.M.I.
Column D	Send as value	The transmitted value gets this number for the network output. Here too, the digital values must get a number between 1 and 16 and the analogue values a number between 17 and 32.
Column E	To IP	This is the fixed IP address of the receiving C.M.I.

A maximum of 128 values can be entered in this table and transmitted via LAN.

The values can be from the network output of each CAN bus device (UVR1611, CAN I/O, CAN-EZ, CAN-BC, CAN-MT).

In the **example** above, two analogue values (17, 18 = ANALOG 1 and 2)) and one digital value (1 = DIGITAL 1) are transmitted from node 1 and one analogue value (17 = ANALOG 1) is transmitted from node 2 via the C.M.I. of the source network.

The receiving C.M.I. of the other CAN network has the IP address 192.168.10.253.

The virtual node numbers of this C.M.I. are 50 and 45 here.

Important instructions for the use of more than 2 C.M.I.s for the data transfer via Ethernet:

Analogue network outputs

The analogue network outputs of a controller are sent in blocks to 4 NW outputs each into the CAN bus network (17-20, 21-24, 25-28, 29-32) and stored by the other side.

Analogue signals from 2 different C.M.I.s may therefore not be sent to the same block of the same virtual node on the receiver C.M.I.

Example:

Incorrect parameterisation:

C.M.I. 1 sends two values to the **C.M.I. 3** via the virtual node 50 to the first block

Nodes source	Value source	Send as node	Send as value	To IP
1	17	50	17	192.168.10.253
1	18	50	18	192.168.10.253

C.M.I. 2 sends two values to the **C.M.I. 3** via the same virtual node 50 and also to the first block

Nodes source	Value source	Send as node	Send as value	To IP
1	17	50	19	192.168.10.253
1	18	50	20	192.168.10.253

Each time values are now sent from **C.M.I. 1** to **C.M.I. 3**, the values to be received from **C.M.I. 2** are set to 0 and vice versa.

Correct parameterisation for C.M.I. 2:

The values from **C.M.I. 2** to **C.M.I. 3** must be output either via **another** virtual node or via the values of **another** block:

Nodes source	Value source	Send as node	Send as value	To IP
1	17	51	17	192.168.10.253
1	18	51	18	192.168.10.253

or:

Nodes source	Value source	Send as node	Send as value	To IP
1	17	50	21	192.168.10.253
1	18	50	22	192.168.10.253

Digital network outputs

The same applies to digital network outputs: These are sent in one complete block for all 16 values into the CAN bus network and accepted by the other side.

Digital signals from two different C.M.I.s may therefore not be sent via the same virtual node of the receiver-C.M.I.

Example:

Incorrect parameterisation:

C.M.I. 1 sends two values to **C.M.I. 3** via virtual node 50

Nodes source	Value source	Send as node	Send as value	To IP
1	1	50	1	192.168.10.253
1	2	50	2	192.168.10.253

C.M.I. 2 sends two values to **C.M.I. 3**, also via virtual node 50

Nodes source	Value source	Send as node	Send as value	To IP
1	1	50	3	192.168.10.253
1	2	50	4	192.168.10.253

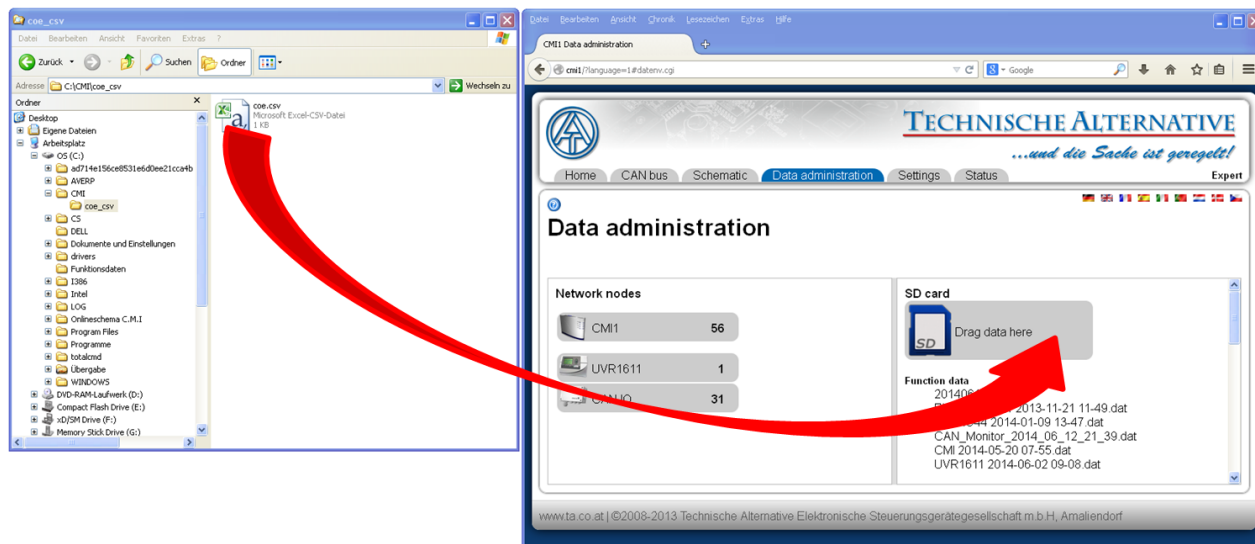
Each time values are now sent from **C.M.I. 1** to **C.M.I. 3**, the values to be received from **C.M.I. 2** are set to 0 (OFF) and vice versa.

Correct parameterisation for C.M.I. 2:

The values from **C.M.I. 2** to **C.M.I. 3** must be output via **another** virtual node.

Nodes source	Value source	Send as node	Send as value	To IP
1	1	51	1	192.168.10.253
1	1	51	2	192.168.10.253

3. The csv file **coe.csv** must now be copied to the root directory of the SD card of the **transmitting** C.M.I. If the file is copied to the SD card with drag & drop, then it is automatically stored in the root folder.



4. After the copy process, the C.M.I. must be **restarted** (menu “Settings/Ethernet”) for the csv file to be loaded. Correct loading of the units requires a complete system reboot.

LAN settings

Host name	
Host name	<input type="text" value="CMI1"/>
IP settings	
DHCP	<input type="checkbox"/>
IP address	<input type="text" value="192.168.10.234"/>
Subnet mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.10.86"/>
HTTP port	<input type="text" value="80"/>
DNS settings	
Primary DNS	<input type="text" value="213.33.99.70"/>
Secondary DNS	<input type="text" value="0.0.0.0"/>
MAC address	
<input type="text" value="3C-CD-5A-00-01-F5"/>	
Reverse	
Web portal	<input checked="" type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Restart"/>	

5. The transfer connection is now set up and the data is transmitted according to the transmit conditions of the node that the values originate from.

6. The values that are output as CAN output variable by the virtual node of the **receiving** C.M.I., can now be accepted as CAN input variable by any CAN bus member of the CAN network in which the receiving C.M.I. is. The values are sent according to the transmission conditions of the CAN bus devices in the network of the transmitting C.M.I.

Example: Menu NETWORK / INPUT VARIABLE / ANALOG

The controller accepts the values of the network **outputs** ANALOG 1 and 2 (17 and 18) of virtual node 50 on the network **inputs** ANALOG 1 and 2. This menu does not show units and decimal places.

1 2 3 4 5 6 7 8 9 10 11 12 13

ANAL. NETW. INPUT

INPUT 1:

NW.Node: 50 ⇌
Anal.NW.Outp.: 1 ⇌
Source: CAN ⇌
Value: 1169

INPUT 2:

NW.Node: 50 ⇌
Anal.NW.Outp.: 2 ⇌
Source: CAN ⇌
Value: 573

As soon as the first value has been transmitted by the **transmitting** C.M.I., the virtual node (only directly on the controller) will be visible as an active node in the menu **Network/Network nodes**. This active node should but not be selected though. This mode is not visible in the browser view of the C.M.I.

These two analogue network inputs can be seen under 17/18 (also in the browser) in the menu **Measured values** overview. The corresponding unit is displayed only after the 1st data transmission of the measured value.

1 2 3 4 5 6 7 8 9 10 11 12 13

MEAS. VAL. OVERVIEW

1: 126,8 °C 79,3 °C
3: 79,8 °C 37,5 °C
5: 86,4 °C 93,2 °C
7: 51,1 °C 224
9: 18,1 °C 14,4 °C
11: 13,6 °C - 5,1 °C
13: - 5,8 °C 33,6 °C
15: OFF OFF

NETWORK INP.:

17: 116,9 °C 57,3 °C

back

reload

Main menu

EC-DECLARATION OF CONFORMITY

EC- DECLARATION OF CONFORMITY

Document- Nr. / Date: TA12027 / 3.10.2013
Company / Manufacturer: Technische Alternative elektronische SteuerungsgerätegesmbH.
Address: A- 3872 Amaliendorf, Langestraße 124
This declaration of conformity is issued under the sole responsibility of the manufacturer.
Product name: C.M.I.
Product brand: Technische Alternative GmbH.
Product description: Control and monitoring interface
The object of the declaration described above is in conformity with Directives:
2006/95/EG Low voltage standard
2004/108/EG Electromagnetic compatibility
2011/65/EU RoHS Restriction of the use of certain hazardous substances
Employed standards:
EN 60730-1: 2011 Automatic electrical controls for household and similar use –
Part 1: General requirements
EN 61000-6-3: 2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards -
+A1: 2011 Emission standard for residential, commercial and light-industrial
environments
EN 61000-6-2: 2005 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards -
Immunity for industrial environments
Position of CE - label: On packaging, manual and type label



Issuer: Technische Alternative elektronische SteuerungsgerätegesmbH.
A- 3872 Amaliendorf, Langestraße 124

This declaration is submitted by



Kurt Fichtenbauer, General manager,
3.10.2013

This declaration certifies the agreement with the named standards, contains however no warranty of characteristics.

The security advices of included product documents are to be considered.

Guarantee conditions, Legal notice

Guarantee conditions

Note: The following guarantee conditions do not in any way limit the legal right to a guarantee; rather expand your rights as a consumer.

1. The company Technische Alternative elektronische Steuerungsgerätegesellschaft m. b. H. provides a two-year guarantee from the date of purchase by the end consumer for all the devices and parts which it sells. Defects must be reported immediately upon detection and within the guarantee period. Technical support knows the correct solution for nearly all problems. In this respect, contacting us immediately will help to avoid unnecessary expense or effort in troubleshooting.
2. The guarantee includes the free of charge repair (but not the cost of on site fault-finding, removal, refitting and shipping) of operational and material defects which impair operation. In the event that a repair is not, for reasons of cost, worthwhile according to the assessment of Technische Alternative, the goods will be replaced.
3. Not included is damage resulting from the effects of overvoltage or abnormal ambient conditions. Likewise, no guarantee liability can be accepted if the device defect is due to: transport damage for which we are not responsible, incorrect installation and assembly, incorrect use, non-observance of operating and installation instructions or incorrect maintenance.
4. The guarantee claim will expire if repairs or actions are carried out by persons who are not authorised to do so or have not been so authorised by us or if our devices are operated with spare, supplementary or accessory parts which are not considered to be original parts.
5. The defective parts must be sent to our factory with an enclosed copy of the proof of purchase and a precise description of the defect. Processing is accelerated if an RMA number is applied for via our home page www.ta.co.at. A prior clarification of the defect with our technical support is necessary.
6. Services provided under guarantee result neither in an extension of the guarantee period nor in a resetting of the guarantee period. The guarantee period for fitted parts ends with the guarantee period of the whole device.
7. Extended or other claims, especially those for compensation for damage other than to the device itself are, insofar as a liability is not legally required, excluded.

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Technische Alternative

elektronische Steuerungsgerätegesellschaft m. b. H.

A-3872 Amaliendorf Langestraße 124

Tel +43 (0)2862 53635

Fax +43 (0)2862 53635 7

E-Mail: mail@ta.co.at

--- www.ta.co.at ---

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